

*Amendments*

*In the Claims:*

1. (Original) A measuring device for monitoring a material and determining a parameter that is related to the dielectric properties of the material, comprising a product area for receiving the product, a first microwave resonator from which, in operation, microwaves can enter the product area, and a compensation device for compensating for environmental influences, the compensation device comprising a second microwave resonator which is shielded from the product area in respect of microwave radiation.
2. (Original) A measuring device according to claim 1, in which the compensation device is arranged to compensate for temperature variation.
3. (Original) A measuring device according to claim 1, which is arranged to determine the density of the product.
4. (Original) A measuring device according to claim 1, in which the product area is a channel for receiving a traveling strand of fibrous material.
5. (Original) A measuring device according to claim 1, in which the first resonator and the second resonator are of substantially the same construction.
6. (Original) A measuring device according to claim 1, in which the first resonator and the second resonator are at least partly filled with a dielectric.
7. (Original) A measuring device according to claim 1, in which the first resonator and the second resonator are arranged adjacent to each other, and separated by a space.
8. (Original) A measuring device according to claim 1, in which the first resonator and the second resonator form a modular unit.

9. (Original) A measuring device according to claim 1, in which, in operation, the product runs through the first resonator.
10. (Currently amended) A measuring device according to claim 1, in which the first resonator and/or the second resonator are each a substantially ~~completely~~ shielded cavity resonator with an opening for the admission of the product.
11. (Currently amended) A fibrous material processing machine having at least one fibre processing element and further comprising a measuring device having a first microwave resonator and a compensating device comprising a second microwave resonator, ~~said~~ the measuring device being positioned at a measuring location and ~~a-said~~ the processing element of ~~said~~ the machine being adjustable in dependence of measurement values obtained at ~~said~~ the measurement location.
12. (Currently amended) A machine according to claim 11, which is for processing textile fibre material, and in which ~~said~~ the measuring device is arranged to monitor the density of a textile fibre sliver and ~~a-said~~ the processing element is adjustable for influencing properties of the sliver.
13. (Original) A machine according to claim 11, the machine being a carding machine, and the measurement device being arranged near a delivery outlet of the carding machine.
14. (Currently amended) A machine according to claim 11, which is a draw frame, ~~a-said~~ the measurement device being arranged near a delivery outlet of the draw frame.
15. (Currently amended) A machine according to claim 11, which is a draw frame, ~~said~~ the draw frame comprising ~~a-first-said~~ the measurement device in an inlet region and ~~a-second-said measurement-~~ the compensating device in an outlet region.

16. (Original) A machine according to claim 15, comprising a machine control and regulation device to which each measurement device is connected.
17. (Currently amended) A machine according to claim 16, further comprising an actuation device for ~~a said~~ the processing element, the actuation device being controllable by the control and regulation device in dependence on measurement data received from the first measurement device and/or measurement data received from the second measurement device.
18. (Currently amended) A method of controlling the density of fibre material in a textile processing machine, comprising monitoring the fibre material at a measuring location using a device comprising a first resonator and a compensation device comprising a second resonator, and adjusting the condition of a processing step in ~~said~~ the machine in dependence on measured values obtained by the measuring device.

***In the Drawings:***

Pursuant to the Examiner's objection to Figure 5, the numbering change has been made as directed. A corrected drawing sheet for Figure 5 is included herewith.